## Determining cut and fill

1 Add the before and after surfacesas themes to a view or 3D scene. These surfacescan be two grid themes, two TIN themes, or a grid theme and a 7 IN theme.
2 Activate both themes.
3 Choose Cut Fill from the Surface menu.
4 Using the dropdown list in the Cut Fill dialog, specify which surface is the before representation and press OK .
Cut-and-fill analysis detemines how much material has been lost orgained in a study area by comparing two surface models of the area -- one before a change and one after.

The area needs to be properly represented in your surface models. Make sure that all locations outside the area cannot be interpolated; otherwise, the results could be inc orrect. Forgrids this means assigning the NoData value to all cellsoutside the a rea, and for 7 INs , masking all outside triangles. You can accomplish the TIN masking by including the boundary of your study area in the triangulation process as a clip feature. See Creating a TIN from vectorfeatures.

